Historic, Archive Document
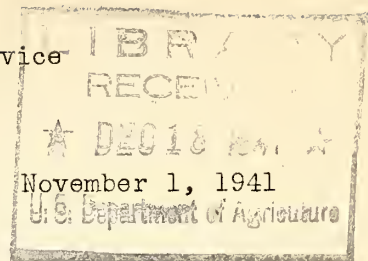
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U. S. Department of Agriculture - Forest Service
CENTRAL STATES FOREST EXPERIMENT STATION

Technical Note 40.

November 1, 1941

VOLUME TABLE 1/
for
SLIPPERY ELM
(Ulmus fulva)
Ross, Knox, and Medina Counties, Ohio

Merchantable Stem to a Variable Top Diameter   (INTERNATIONAL Rule ($\frac{1}{4}$" Kerf)

Diameter breast high outside bark (inches)	Gross volume of stem in 12.3-foot logs to merchantable height				Top d.i.b. at merchantable limit	Basis in trees
	1 log	2 logs	3 logs	4 logs		
	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Inches	Number
9	20	32	42		7.1	7
10	26	42	56	68	7.4	
11	33	54	71	87	7.7	19
12	42	68	90	109	8.2	
13	52	83	110	134	8.8	9
14	63	101	134	163	9.5	
15	75	121	160	195	10.2	6
16	89	143	190	231	10.9	
17		168	222	271	11.6	4
18		195	258	315	12.3	
19		224	297	362	13.1	4
20		256	340	414	13.8	
21		291	386	470	14.6	2
22		329	434	531	15.4	
23			489		16.1	1
24			547		16.9	
Basis in trees-- number	11	26	13	2	--	52

1/ Trees measured by J. W. Girard in 2-inch diameter classes and in 10- to 16-foot log lengths, and scaled as such. Table prepared in 1941 by the equation method. Coefficient of multiple correlation (R) is .983. Band of the standard error of estimate, 86.9 to 115.0 percent. Block shows limits of basic data. Statistical assistance furnished by personnel of WPA Official Project No. 65-2-42-296.

The total estimated gross volume of single slippery elm trees or stands should be corrected for cull (including defect, sweep, crook, shake, etc.) by a percentage reduction. This percentage should be determined locally through observing the cull elements and through experience of sawmill operators as regards losses from rot, shake, etc., in utilizing this species.

R. E. Emmer